

## Pre-Construction Guidelines and Construction Quality Assurance Standards for New Unit and Other Construction

The Technical Compliance Section in the Compliance and Response Branch of the Office of Land Quality (OLQ) oversees all phases of landfill construction. In order to ensure landfill construction meets the requirements of Indiana regulations and specific permit conditions, the Technical Compliance Section has devised the following pre-construction and construction quality assurance (CQA) guidelines. This guidance is intended to assist agency engineers and permittees in achieving compliance with CQA during construction.

1. The permittee should notify the Technical Compliance Section in writing at least fifteen (15) days in advance of the construction of each unit. A map is attached to assist in determining which engineer is responsible for each landfill.
2. 329 IAC 10-17-18 requires a pre-construction meeting to be held upon the award of the construction contract. The permittee should notify the Technical Compliance engineer of the meeting either in writing or by telephone at least seven (7) days in advance of the meeting.
3. The Erosion Control Plan required by 327 IAC 15-5, with any modification required by the local Soil & Water Conservation District, shall be made available to representatives of OLQ upon request. All relevant erosion control and sediment practices outlined in the Erosion Control Plan should be implemented prior to land disturbance activity connected to the new unit construction.
4. The project engineer should be on-site at all times during the construction phases of the new unit. The project engineer is defined under 329 IAC 10-2-144 as "the specific individual designated by the owner with knowledge of the project, project plans, specifications, and quality assurance/quality control (QA/QC) document and shall be supervised by a registered professional engineer." The phases of construction at which the project engineer should be present are as follows:
  - A. Preparation of subgrade
  - B. Construction of soil liner
  - C. Application of geomembrane (if required)
  - D. Application of geotextiles (if required)
  - E. Construction of leachate collection system
  - F. Application of protective layer

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5. 329 IAC 10-19-1 requires a Construction Certification Report (CCR) be prepared and signed by an Indiana registered Professional Engineer (PE). It is expected that the certifying PE shall be present on the construction site during each phase to ensure responsible oversight of construction and control of the construction quality assurance/construction quality control testing.
6. It is expected that the certifying PE shall make inspections and give to the facility owner written acceptance notice of each phase prior to construction implementation of the next phase. This shall be done immediately prior to commencing construction of the next phase. Written acceptance notice of each phase should be included in the CCR.
7. Per the requirements of 329 IAC 10-19-1(a), the certifying PE shall prepare and submit the CCR before waste is deposited in the new unit.
8. Pursuant to 329 IAC 10-19-1(b), upon satisfying all the requirements of 329 IAC 10-19-1(a), a new unit or lateral expansion may begin accepting waste twenty-one (21) days after receipt of the CCR by OLQ, or as soon as written notice of approval of the CCR is received by the facility, whichever is earliest.